

Layered EIR Massive Operations over CLI

Ericsson Dynamic Activation 1

INTERFACE DESCRIPTION

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1 Introduction

This document covers the massive operations available through the Ericsson™ Dynamic Activation (EDA) Command Line Interface (CLI).

1.1 Purpose and Scope

This document describes Layered Equipment Identity Register (EIR), conditional search commands.

How to use these commands is covered in the document *Generic CLI Interface Specification*, Reference [3].

1.2 Target Group

The target group for this document is as follows:

- System Integrator

For more information regarding the different target groups, see *Library Overview*, Reference [2].

1.3 Typographic Conventions

Typographic conventions are described in the document *Library Overview*, Reference [2].

For information about abbreviations used throughout this document refer to *Glossary of Terms and Acronyms*, Reference [1].





2 EIR Conditional Search Commands

This section covers all EIR conditional search commands available through the Dynamic Activation CLI. All conditional search commands generate response files, rather than printing the answer directly to the client.

The following EIR search commands are available:

- Print Cloned Handset Users (EEMSCLP), see Section 2.1 on page 3.
- Print Equipment (EEMSEQP), see Section 2.2 on page 4.
- Print Search Orders (EEMSSOP), see Section 2.3 on page 6.
- Print Fixed SIMs (EEMSFSP), see Section 2.4 on page 8.

2.1 Print Cloned Handset Users (EEMSCLP)

This command prints all cloned handset users.

2.1.1 EEMSCLP Request

Command Description:

```
EEMSCLP;
```

Example of an EEMSCLP command

EEMSCLP; This CLI command prints all cloned handset users.

The following table covers the attributes that can be received in Cloned Handset Users Result File.

Note: The Check Digit in the IMEI value is not supported.

Table 1 Attributes

Attribute	Type	Description	Occurrence
imsi	Numeric string pattern value="[0-9]*" minLength value="6" maxLength value="15"	This attribute contains the IMSI associated to the equipment.	Mandatory
ClonedImei	Sub MO	Maximum five cloned IMEIs can be retrieved	Mandatory



Table 1 Attributes

Attribute		Type	Description	Occurrence
	imei	Numeric String Pattern value="[0-9]{2}" minLength value="14" maxLength value="14"	This attribute contains the IMEI associated with the equipment	Mandatory
	svn	String Pattern value="[0-9]{2}"	This attribute contains the Software Version Number associated with the equipment. SVN value 99 is reserved for future use.	Optional

2.1.2 EEMSCLP Result File Schema

```
<xs:element name="ClonedHandsetUserData">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="ClonedHandsetUser" minOccurs="0" maxOccurs="unbounded">
        <xs:complexType>
          <xs:sequence>
            <xs:element name="imsi" type="imsiType"/>
            <xs:element name="ClonedImei" maxOccurs="5">
              <xs:complexType>
                <xs:sequence>
                  <xs:element name="imei" type="imeiType"/>
                  <xs:element name="svn" type="svnType" minOccurs="0"/>
                </xs:sequence>
              </xs:complexType>
            </xs:element>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

Example 1 EEMSCLP Result File Schema

2.2 Print Equipment (EEMSEQP)

This command prints all equipment.

2.2.1 EEMSEQP Request

Command Description:

```
EEMSEQP:IMEIALL[,LIST=list];
```

Example of an EEMSEQP command

```
EEMSEQP:IMEIALL,LIST=6;
```

This CLI command prints all IMEIs that are present in equipment list 6.



The following table covers the attributes that can be received in Equipment Result File.

Note: The Check Digit in the IMEI value is not supported.

Table 2 Attributes

Attribute	Type	Description	Occurrence
imei	Numeric String Pattern value=[0-9]{2} minLength value="14" maxLength value="14"	This attribute contains the IMEI associated with the equipment	Mandatory
svn	String Pattern value="[0-9]{2}"	This attribute contains the Software Version Number associated with the equipment. SVN value 99 is reserved for future use.	Optional
date	Date format is yyyy-mm-dd.	This attribute contains the date when the equipment is created.	Optional
time	Time format is hh:mm:ss.	This attribute contains the time when the equipment is created.	Optional
comment	String minLength value="0" maxLength value="255"	This attribute contains a comment related to why the equipment is created.	Optional
equipmentListNumber	Integer minInclusive value="0" maxInclusive value="9"	This attribute contains the lists for which the equipment is defined. One equipment can be included in up to 10 lists.	Optional



2.2.2 EEMSEQP Result File Schema

```
<xs:schema xmlns="http://schemas.ericsson.com/ma/EIR/"
  xmlns:xs="http://www.w3.org/2001/XMLSchema" targetNamespace="http://schemas.ericsson.com/ma/EIR/" elementFormDefault="qualified" attributeFormDefault="unqualified">
  <xs:include schemaLocation="../types/eirla_types.xsd"/>
  <xs:element name="EquipmentData">
    <xs:complexType>
      <xs:sequence>
        <xs:element name="Equipment" minOccurs="0" maxOccurs="unbounded">
          <xs:complexType>
            <xs:sequence>
              <xs:element name="imei" type="imeiType"/>
              <xs:element name="svn" type="svnType" minOccurs="0"/>
              <xs:element name="date" type="dateType" minOccurs="0"/>
              <xs:element name="time" type="timeType" minOccurs="0"/>
              <xs:element name="comment" type="commentType" minOccurs="0"/>
            <xs:sequence>
              <xs:element name="EquipmentListType" minOccurs="0">
                <xs:complexType>
                  <xs:sequence>
                    <xs:element name="equipmentListNumber" type="equipmentListNumberType"
                      minOccurs="0" maxOccurs="10"/>
                  </xs:sequence>
                </xs:complexType>
              </xs:element>
            </xs:sequence>
          </xs:complexType>
        </xs:element>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
</xs:schema>
```

Example 2 EEMSEQP Result File Schema

2.3 Print Search Order (EEMSSOP)

This command prints all search orders.

2.3.1 EEMSSOP Request

Command Description:

EEMSSOP;

Example of an EEMSSOP command

EEMSSOP; This CLI command prints all search orders.

The following table covers the attributes that can be received in search orders Result File.



Table 3 Attributes

Attribute		Type	Description	Occurrence
imsiPrefix		Numeric string pattern value="[0-9]*" minLength value="2" maxLength value="15" Or "Default"	This attribute contains the IMSI of the equipment being searched for. A default search order must be present and is indicated by "Default" in this attribute	Mandatory
unknownResponse		Enumeration value="Black" value="Grey" value="White" value="Unknown"	This attribute contains the response returned if the IMEI being searched for is not found in any of the lists.	Mandatory
SearchOrderListEntry			Maximum five list entries can be defined	Optional
	searchOrderListNumber	Integer minInclusive value="1" maxInclusive value="5"	This attribute contains the identifier of a list entry.	Mandatory
	equipmentListNumber	Integer minInclusive value="0" maxInclusive value="9"	This attribute contains a reference to an equipment list to search. See Equipment MO for details related to equipment lists	Mandatory
	response	Enumeration value="Black" value="Grey" value="White" value="Unknown"	This attribute contains the response returned if the IMEI being searched for is found in the list identified by equipmentListNumber	Mandatory



2.3.2 EEMSSOP Result File Schema

```
<xs:schema xmlns="http://schemas.ericsson.com/ma/EIR/"
  xmlns:xs="http://www.w3.org/2001/XMLSchema" targetNamespace="http://schemas.ericsson.com/ma/EIR/" elementFormDefault="qualified" attributeFormDefault="unqualified">
  <xs:include schemaLocation="../types/eirla_types.xsd"/>
  <xs:element name="SearchOrderData">
    <xs:complexType>
      <xs:sequence>
        <xs:element name="SearchOrder" minOccurs="0" maxOccurs="unbounded">
          <xs:complexType>
            <xs:sequence>
              <xs:element name="imsiPrefix" type="imsiPrefixType"/>
              <xs:element name="unknownResponse" type="responseType"/>
              <xs:element name="SearchOrderListEntry" minOccurs="0" maxOccurs="5">
                <xs:complexType>
                  <xs:sequence>
                    <xs:element name="searchOrderListNumber"
                      type="searchOrderListNumberType"/>
                    <xs:element name="equipmentListNumber" type="equipmentListNumberType"/>
                    <xs:element name="response" type="responseType"/>
                  </xs:sequence>
                </xs:complexType>
              </xs:element>
            </xs:sequence>
          </xs:complexType>
        </xs:element>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
</xs:schema>
```

Example 3 EEMSSOP Result File Schema

2.4 Print Fixed SIMs (EEMSFSP)

This command prints all Fixed SIMs.

2.4.1 EEMSFSP Request

Command Description:

EEMSFSP;

Example of an EEMSFSP command

EEMSFSP; This CLI command prints all Fixed SIMs.

The following table covers the attributes that can be received in a Fixed SIMs Result File.

Note: The Check Digit in the IMEI value is not supported.



Table 4 Attributes

Attribute		Type	Description	Occurrence
imsi		Numeric string pattern value="[0-9]*" minLength value="6" maxLength value="15"	This attribute contains the IMSI associated to the locked equipment.	Mandatory
LockedImei				
	imei	Numeric String Pattern value="[0-9]{2}" minLength value="14" maxLength value="14"	This attribute contains the IMEI associated with the equipment	Mandatory
	svn	String Pattern value="[0-9]{2}"	This attribute contains the Software Version Number associated with the equipment that it is locked to". SVN value 99 is reserved for future use.	Optional

2.4.2 EEMSFSP Result File Schema

```

<xs:element name="FixedSimData">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="FixedSim" minOccurs="0" maxOccurs="unbounded">
        <xs:complexType>
          <xs:sequence>
            <xs:element name="imsi" type="imsiType"/>
            <xs:element name="LockedImei">
              <xs:complexType>
                <xs:sequence>
                  <xs:element name="imei" type="imeiType"/>
                  <xs:element name="svn" type="svnType" minOccurs="0"/>
                </xs:sequence>
              </xs:complexType>
            </xs:element>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

Example 4 EEMSFSP Result File Schema





3 Faults or Errors

The CLI error codes can appear both directly in the prompt, and in the result files. Besides the generic and common error codes, the CLI commands can also return some more specific error codes.

3.1 General CLI Errors

The following table covers PS internal error codes. They can appear in any CLI responses.

Table 5 General PS Internal Error Codes

Error Code	Error Message
1001	Invalid resource ID.
1002	Invalid XPath.
1003	Unrecognized namespace. No data view associated.
1004	Access denied. Invalid principal or credentials.
1005	Not authorized to perform current operation on selected data view.
1006	Invalid parameter.
1007	The XPath failed to match any data in the processed XML.
1008	Failed to provision data.
1009	Unsupported operation.
1093	Could not process request because of limit of maximum number of concurrent ongoing CLI transactions reached.
1095	Communication error while interacting with a Network Element.
1096	Time-out expired during wait for answer from Network Element.
1097	Failure during processing of the request.
1098	Could not process request because of resource limitation.
1099	System error.
1100	Execution was canceled
1101	External error
1103	License error

3.2 Command Mapped Errors

This section covers EIR provisioning interface errors that are mapped towards certain commands. The commands listed in this section can be assumed to be stopping, unless "(not stopping)" is stated. They are listed in the following table along with the commands that can return them.



Table 6 Command Mapped Errors

Error Code	Error Message	Command
2001	FORMAT ERROR	EEMSCLP
		EEMSEQP
		EEMSSOP
		EEMSFSP
2002	UNREASONABLE VALUE	EEMSEQP
2005	STORAGE IO FAILURE	EEMSCLP
		EEMSEQP
		EEMSSOP
		EEMSFSP



Reference List

Ericsson Documents

- [1] *Glossary of Terms and Acronyms*, 0033-CSH 109 628 Uen
- [2] *Library Overview*, 18/1553-CSH 109 628 Uen
- [3] *Generic CLI Interface Specification*, 15/155 19-CSH 109 628 Uen